



## **OPERATING INSTRUCTIONS – CATALOG NO. 480 (RC-50) ARTIFICIAL LOAD**

Before connecting standard and leads to the RC-50:

- 1) Move LOW BURDEN/HIGH BURDEN switch to “LOW BURDEN” position.
- 2) Move 100% P.F./50% P.F. switch to “100% P.F.” position.
- 3) Rotate current “ADJUST” fully counter clockwise.
- 4) Set current AMPERES to selected test value of current.

**CAUTION: NO SWITCHING OR CHANGING OF CURRENT LEADS SHOULD BE MADE UNLESS THE CURRENT “ADJUST” IS FIRST ROTATED FULLY COUNTER CLOCKWISE.**

Make potential and current connections to two-wire energy source, meter under test, and rotating standard in the conventional manner (see figure). Make sure that source potential is connected to correspondingly marked binding posts.

Connect +/-, F.L., and L.L. current leads to correspondingly marked binding posts.

Rotate current “ADJUST” to desired AMPERES.

For lagging power-factor test, move the power-factor switch to the 50% P.F. position.

For high test burdens, usually at 50 amperes, the current “ADJUST” at full clockwise rotation, may not deliver full scale value at the LOW-BURDEN setting. To correct for this, reduce the current “ADJUST” to zero and move the “BURDEN” switch to HIGH-BURDEN, then increase current “ADJUST” until the desired current is reached.

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Figure 1: Example connections with Radian Standard:

